

Abstract

A system for coupling ultra-high vacuum components specifically where a component is inserted between two standard thickness flanges. This system will minimize the length that is added onto a vacuum system when a component is added. The invention is a relatively thin flange including two sealing surfaces separated by a thin web. The thin flange of the present invention may be configured to mount a variety of equipment within a vacuum system, and/or provide connection between the interior of the vacuum system and the outside environment, such as electrical connection or fluid connection.